

## FACSIMILE COVER SHEET

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**FROM:** Sheela Mohan-Peterson

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XP-002059834

Hs897286.Emerst8

Reference No. 1

P.D. 17-02-1995

p. .... =

2

!!NA\_SEQUENCE 1.0

ID HS897286 standard; RNA; EST; 410 BP.

XX

AC N44897;

XX

NI g1186063

XX

DT 17-FEB-1996 (Rel. 46, Created)

DT 17-FEB-1996 (Rel. 46, Last updated, Version 1)

XX

DE yy21d05.r1 Homo sapiens cDNA clone 271881 5' similar to gb:M24470

DE GMP REDUCTASE (HUMAN);.

XX

KW EST.

XX

OS Homo sapiens (human)

OC Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

XX

RN [1]

RP 1-410

RA Hillier L., Clark N., Dubuque T., Elliston K., Hawkins M., Holman M.,

RA Hultman M., Kucaba T., Le M., Lennon G., Marra M., Parsons J.,

RA Rifkin L., Rohlfing T., Soares M., Tan F., Trevaskis E., Waterston R.,

RA Williamson A., Wohldmann P., Wilson R.;

RT "The WashU-Merck EST Project";

RL Unpublished.

XX

CC Contact: Wilson RK WashU-Merck EST Project Washington University

CC School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis,

CC MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email:

CC est@watson.wustl.edu High quality sequence stops: 281 Source: IMAGE

CC Consortium, LLNL This clone is available royalty-free through LLNL

CC ; contact the IMAGE Consortium (info@image.llnl.gov) for further

CC information. NCBI gi: 1186063

XX

FH Key Location/Qualifiers

FH

FT source 1. .410

FT /organism="Homo sapiens"

FT /note="human"

FT /clone="271881"

FT mRNA &lt;1. .&gt;410

XX

SQ Sequence 410 BP; 100 A; 93 C; 100 G; 115 T; 2 other;

Hs897286 Length: 410 March 20, 1998 15:25 Type: N Check: 2221 ...

1 ATTGACAACG ATGTGAACTG GACTTCAAGG ATGTCCTTTT GAGGCNCAAA

51 CGCAGTACCC TTAAGTCTCG AAGTGAGGTG GATCTCACAA GATCCTTTTC

101 ATTTCCGAAC TCAAAGCAGA CATACTCTGG GGTTCCCATC ATTGCTGCCA

151 ATATGGATAC TGTGGGCACC TTTGAGATGG CCAAGGTTCT CTGTAAGTTC  
201 TCTCTCTTCA CTGATGTCCA TAAGCACTAT AGCCTCGTTC AGTGGCAAGA  
251 GTTTGCTGGC CAGAATCCTG ATTGTCTTGA GCATCTGGCT GCCAGCTCAG  
301 GCACAGGCTC TTCTGACTTT GAGCAGCTGG AACAGATCCT GGAAGCTATT  
351 CCCCAGGTGG AAGTATATAT GCCTGGATGT GGCAAAATGG GNTAATCTGG  
401 AAAACTTTTG

Hs887266.Emerst8

Reference No. 2

P.DOS-01-1330

p. .... = (2)

!!NA\_SEQUENCE 1.0

ID HS887266 standard; RNA; EST; 501 BP.

XX

AC N28887;

XX

NI g1147123

XX

DT 05-JAN-1996 (Rel. 46, Created)

DT 05-JAN-1996 (Rel. 46, Last updated, Version 1)

XX

DE yx63a11.r1 Homo sapiens cDNA clone 266396 5' similar to gb:M24470

DE GMP REDUCTASE (HUMAN);

XX

KW EST.

XX

OS Homo sapiens (human)

OC Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

XX

RN [1]

RP 1-501

RA Hillier L., Clark N., Dubuque T., Elliston K., Hawkins M., Holman M.,

RA Hultman M., Kucaba T., Le M., Lennon G., Marra M., Parsons J.,

RA Rifkin L., Rohlfsing T., Soares M., Tan F., Trevaskis E., Waterston R.,

RA Williamson A., Wohldmann P., Wilson R.;

RT "The WashU-Merck EST Project";

RL Unpublished.

XX

CC Contact: Wilson RK WashU-Merck EST Project Washington University

CC School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis,

CC MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email:

CC est@watson.wustl.edu High quality sequence stops: 372 Source: IMAGE

CC Consortium, LLNL This clone is available royalty-free through LLNL

CC ; contact the IMAGE Consortium (info@image.llnl.gov) for further

CC information. NCBI gi: 1147123

XX

FH Key Location/Qualifiers

FH

FT source 1. .501

FT /organism="Homo sapiens"

FT /note="human"

FT /clone="266396"

FT mRNA <1. .>501

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SQ Sequence 501 BP; 120 A; 116 C; 130 G; 134 T; 1 other;

Hs887266 Length: 501 March 20, 1998 15:26 Type: N Check: 333 ..

1 TCCTTTTCAT TTCGGAAGCTC AAAGCAGACA TACTCTGGGG TTCCCATCAT

51 TGCTGCCAAT ATGGATACTG TGGGCACCTT TGAGATGGCC AAGGTTCTCT

101 GTAAGTTCTC TCTCTTCACT GATGTCCATA AGCACTATAG CCTCGTTCAG

151 TGGCAAGAGT TTGCTGGCCA GAATCCTGAT TGTCTTGAGC ATCTGGCTGC  
201 CAGCTCAGGC ACAGGCTCTT CTGACTTTGA GCAGCTGGAA CAGATCCTGG  
251 AAGCTATTCC CCAGGTGAAG TATATATGCC TGGATGTGGC AAATGGCTAC  
301 TCTGAACACT TTGTTGAATT TGTAAGAGAT GTACGGAAGC GCTTCCCCCA  
351 GCACACCATC ATGGCAGGGA ATGTGGTAAC AGGAGAGATG GTAGAAGAGC  
401 TCATCCTTTC TGGGGCTGAC ATCATCAAAG TGGGAATTGG GCCAGGCTCT  
451 GTGTGTACTA CTCGGAAGAA AACTGGAGTG GGGTATCCCA GCTCAGCGCN  
501 T

Reference No. 3  
 PD.25-07-55  
 p. = (2)

!!NA\_SEQUENCE 1.0

ID HSA04431 standard; RNA; EST; 522 BP.  
 XX  
 AC AA004431;  
 XX  
 NI g1448545  
 XX  
 DT 25-JUL-1996 (Rel. 48, Created)  
 DT 12-MAY-1997 (Rel. 51, Last updated, Version 2)  
 XX  
 DE zh87a04.r1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA  
 DE clone 428238 5' similar to gb:M24470 GMP REDUCTASE (HUMAN);  
 XX  
 KW EST.  
 XX  
 OS Homo sapiens (human)  
 OC Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 XX  
 RN [1]  
 RP 1-522  
 RA Hillier L., Clark N., Dubuque T., Elliston K., Hawkins M., Holman M.,  
 RA Hultman M., Kucaba T., Le M., Lennon G., Marra M., Parsons J.,  
 RA Rifkin L., Rohlfing T., Soares M., Tan F., Trevaskis E., Waterston R.,  
 RA Williamson A., Wohldmann P., Wilson R.;  
 RT "The WashU-Merck EST Project";  
 RL Unpublished.  
 XX  
 CC Contact: Wilson RK WashU-Merck EST Project Washington University  
 CC School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis,  
 CC MO 63106 Tel: 314 286 1800 Fax: 314 286 1810 Email:  
 CC est@watson.wustl.edu This clone is available royalty-free through  
 CC LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for  
 CC further information. Insert Length: 1169 Std Error: 0.00 Seq  
 CC primer: mob.REGA+ET High quality sequence stop: 270.  
 XX  
 FH Key Location/Qualifiers  
 FH  
 FT source 1. 522  
 FT /organism="Homo sapiens"  
 FT /note="Organ: Liver and Spleen; Vector: pT7T3D (Pharmacia  
 FT with a modified polylinker; Site\_1: Pac I; Site\_2: Eco RI  
 FT This is a subtracted version of the original Soares fetal  
 FT liver spleen 1NFLS library. 1st strand cDNA was primed with  
 FT a Pac I - oligo(dT) primer [5'  
 FT AACTGGAAGAATTAATTAAAGATCTTTTTTTTTTTTTTTTTTTT 3'] ,  
 FT  
 FT double-stranded cDNA was ligated to Eco RI adaptors  
 FT (Pharmacia), digested with Pac I and cloned into the Pac I  
 FT and Eco RI sites of the modified pT7T3 vector. Library was  
 FT  
 FT through one round of normalization. Library constructed by  
 FT Bento Soares and M.Fatima Bonaldo."  
 FT /sex="male"

FT /clone="428238"  
FT /clone\_lib="Soares fetal liver spleen 1NFLS S1"  
FT /dev\_stage="20 week-post conception fetus"  
FT /lab\_host="DH10B (ampicillin resistant)"

FT mRNA <1. .>522

XX

SQ Sequence 522 BP; 126 A; 99 C; 153 G; 124 T; 20 other;

Hsa04431 Length: 522 March 20, 1998 15:27 Type: N Check: 296 ..

```
1  TGGTAGAAGA GCTCATCCTT TCTGGGGCTG ACATCATCAA AGTGGGAATT
51  GGGCCAGGCT CTGTGTGTAC TACTCGNAAG ANAACTGGAG TGGGGTATCC
101 ACAGCTCANC GCAGTGATGG AGTGTGCAGA TGCTNCTCAT GGCCTCAAAG
151 NCACNATCAT TTCAGATGGA GGTTCGAGCT GTCCTGGGGA TGTGGCCAAG
201 GCTTTTGGNG CAGGANCTGA CTTCGTGATG CTGGGTGGCA TGCTGGCTGG
251 GCACAGTGAG TCAGGTGGTG AGCTCATCGA GANGGATGGC AATAAGTACA
301 AGCTCTTCTA TGGAATNAGT TCTTAAATTG GCCATGAAGA ANGTATGCTG

351 GGGGCGTGGC TNAAGTACAG AGCCTCANAG GGAAAGACAN TGGAAGTTCC
401 TTTTAAAGGA GATGTTGGAA CATAACCATCC CGAGACNTCC TAGNAAGGAN
451 TCCGCTCTAC GTTTACCTAT TGTGTTGGTAA NCAGCTAAGC TCAAGAGAGT
501 TTGNGCAGGN AGAACTACCT TC
```

## !!NA\_SEQUENCE 1.0

ID HS937352 standard; RNA; EST; 646 BP.

XX

AC W60937;

XX

NI g1367705

XX

DT 09-JUN-1996 (Rel. 48, Created)

DT 09-JUN-1996 (Rel. 48, Last updated, Version 1)

XX

DE zd27e06.r1 Soares fetal heart NbHH19W Homo sapiens cDNA clone

DE 341890 5' similar to gb:M24470 GMP REDUCTASE (HUMAN);.

XX

KW EST.

XX

OS Homo sapiens (human)

OC Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

XX

RN [1]

RP 1-646

RA Hillier L., Clark N., Dubuque T., Elliston K., Hawkins M., Holman M.,

RA Hultman M., Kucaba T., Le M., Lennon G., Marra M., Parsons J.,

RA Rifkin L., Rohlfing T., Soares M., Tan F., Trevaskis E., Waterston R.,

RA Williamson A., Wohldmann P., Wilson R.;

RT "The WashU-Merck EST Project";

RL Unpublished.

XX

CC Contact: Wilson RK WashU-Merck EST Project Washington University  
School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis,  
MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email:

CC est@watson.wustl.edu This clone is available royalty-free through

CC LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for

CC further information. Seq primer: mob.REGA+ET High quality sequence  
CC stop: 400.

XX

FH Key Location/Qualifiers

FH

FT source

FT

FT /organism="Homo sapiens"

FT /note="Organ: heart; Vector: pT7T3D (Pharmacia) with a  
FT modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st  
FT strand cDNA was primed with a Not I - oligo(dT) primer [5'  
FT TGTTACCAATCTGAAGTGGGAGCGGCCGCATCTTTTTTTTTTTTTTTTTTTT 3'],  
FT double-stranded cDNA was size selected, ligated to Eco RI  
FT adapters (Pharmacia), digested with Not I and cloned into

FT the Not I and Eco RI sites of a modified pT7T3 vector

FT (Pharmacia). Library went through one round of

FT normalization to a Cot = 5. Library constructed by M.Fatin

FT Bonaldo. This library was constructed from the same fetus  
FT as the fetal lung library, Soares fetal lung NbHL19W."

FT /sex="unknown"

FT /clone="341890"



FT /clone\_lib="Soares fetal heart NbHH19W"  
FT /dev\_stage="19 weeks"  
FT /lab\_host="DH10B (ampicillin resistant)"  
FT mRNA <1. .>646

XX

SQ Sequence 646 BP; 183 A; 150 C; 161 G; 148 T; 4 other;

Hs937352 Length: 646 March 20, 1998 15:28 Type: N Check: 3051 ..

1 CGAGCTCATC GAGAGGGATG GCAAGAAGTA CAAGCTCTTC TATGGAATGA  
51 GTTCTGAAAT GGCCATGAAG AAGTATGCTG GGGGCGTGGC TGAGTACAGA  
101 GCCTCAGAGG GAAAGACAGT GGAAGTTCCT TTAAAGGAG ATGTGGAACA  
151 TACCATCCGA GACATCCTAG GAGGGATCCG CTCTACGTGT ACCTATGTGG  
201 GAGCAGCTAA GCTCAAAGAG TTGAGCAGGA GAACTACCTT CATCCGAGTC  
251 ACCCAGCAGG TGAATCCAAT CTTCACTGAG GCGTGCTAGA CCTGAGCAAG  
301 TTCTACCCTC CCAAGGCACC AAGTACTCTA CCATGGGGCA TCCCAAGTTG  
351 GGGTCCTCAC CCATCCCAGC TACTGCAGCT CTGTATTACT TTGTCATTTT  
  
401 CTGTTGTCTC ACTCCTGAGG GCTCCTGCAG TAACTCTGTA CTTCTCTATC  
451 TGCACACACA AAATGCCCAA NGCACTCACT GGGGANGAAG CAAGGAAGCA  
501 AACAGTCTGA GAAAATGATG CAAGAAATCA AATGGGAATC TGGGGACCCA  
551 CACAACATCC TGAAGATTAT TNAAGGAAA GATGCTGATT GTACATAATC  
601 CTTTACATGG CCTGGTCTAG AGAGGCAGGC NTTTAGATCA TGTTTT

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